Amendments to the claims:

Cancel claims 2, 3, 5 and 7-17.

	Amend claims 1, 4 and 6.
1	1. (Currently Amended) A magnetic read head that has a head surface comprising:
2	a read sensor that forms a portion of said head surface and has first and second side walls
3	which extend into the read head from said head surface;
ູ4	nonmagnetic electrically insulative first and second read gap layers wherein the first read gap
5	layer includes a read gap material layer and first and second refill gap layers;
6	the read sensor being located between the first and second read gap layers;
7	the read gap material layer having first and second depressions which extend laterally from
8	the first and second side walls respectively of the sensor;
9	the first and second refill gap layers being disposed in the first and second depressions and
10	engaging a bottom portion of the first side wall and engaging a bottom portion of the second side
11	wall respectively;
12	the first read gap layer having first and second portions which extend laterally from the first
13	and second side walls of the sensor and a third portion which engages a bottom surface of the sensor
14	and is located between said first and second portions;
15	each of said first and second portions having a thickness which is greater than a thickness of
16	said third portion; [[and]]
17	first and second hard bias layers interfacing the first and second refill gap layers respectively
18	and the top portion of the first and second side walls respectively;
19	said first and second lead layers interfacing the first and second hard bias layers respectively;

a first lead layer electrically connected to a top portion of the first side wall and a second lead layer electrically connected to a top portion of the second side wall[[.]];

each of the first and second hard bias layers and the sensor having a top surface;

the top surfaces of the first and second hard bias layers and the sensor lying within a common

a ferromagnetic first shield layer;

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plane;

the first read gap layer interfacing the first shield layer;

the second read gap layer interfacing the sensor; and

a ferromagnetic second shield layer interfacing the second read gap layer.

2.-3. (Cancelled)

1	4.	(Currently Amended)	A magnetic head assembly that has a head surface
2	comprising:		
3	a write	e head;	
4	a read	head adjacent the write he	ead comprising:
5		a read sensor that forms	a portion of said head surface and that has first and second
6	side w	alls which extend into the	read head from said head surface;
7		nonmagnetic electrically	insulative first and second read gap layers wherein the first
8	read g	ap layer includes a read ga	p material layer and first and second refill gap layers;
9		the read sensor being loc	ated between the first and second read gap layers;
10		the first read gap materi	al layer having first and second depressions which extend
11	lateral	ly from the first and secon	d side walls respectively of the sensor;
12		the first and second re	efill gap layers being disposed in the first and second
13	depres	ssions and engaging a bot	tom portion of the first side wall and engaging a bottom
14	portio	n of the second side wall r	espectively;
15		the first read gap layer h	aving first and second portions which extend laterally from
16	the firs	st and second side walls of t	he sensor and a third portion which is between the first and
17	second	d portions and is located b	etween the sensor and the first shield layer;
18		each of said first and se	econd portions having a thickness which is greater than a
19	thickn	ess of said third portion;	
20		first and second hard bi	as layers interfacing the first and second refill gap layers
21	respec	tively and the top portion	of the first and second side walls respectively;
22		said first and second lea	ad layers interfacing the first and second hard bias layers
23	respec	ctively.	
24		each of the first and second	and hard bias layers and the sensor having a top surface;
25		the top surfaces of the fi	rst and second hard bias layers and the sensor lying within
26	a com	mon plane;	
27		a first lead layer electric	ally connected to a top portion of the first side wall and a
28	secon	d lead layer electrically cor	nnected to a top portion of the second side wall;
29		a ferromagnetic first shie	eld layer;
30		the first read gap layer ir	nterfacing the first shield layer;
31		the second read gap lay	er interfacing the sensor; and
32		a ferromagnetic second	shield layer interfacing the second read gap layer.

5. (Cancelled)

1	6. (Currently Amended) A magnetic disk drive comprising:
2	at least one magnetic head assembly[[;]] that has a head surface;
3	the magnetic head assembly having a write head and a read head;
4	the read head including:
.5	a read sensor that forms a portion of said head surface and has first and second side
6	walls which extend into the read head from said head surface;
7	nonmagnetic electrically insulative first and second read gap layers wherein the first
8	read gap layer includes a read gap material layer and first and second refill gap layers;
9	the read sensor being located between the first and second read gap layers;
10	the read gap material layer having first and second depressions which extend laterally
11	from the first and second side walls respectively of the sensor;
12	the first and second refill gap layers being disposed in the first and second
13	depressions and engaging a bottom portion of the first side wall and engaging a bottom
14	portion of the second side wall respectively;
15	the first read gap layer having first and second portions which extend laterally from
16	the first and second side walls of the sensor and a third portion which is between the first and
17	second portions and is located between the sensor and the first shield layer;
18	each of said first and second portions having a thickness which is greater than a
19	thickness of said third portion;
20	first and second hard bias layers interfacing the first and second refill gap layers
21	respectively and the top portion of the first and second side walls respectively;
22	said first and second lead layers interfacing the first and second hard bias layers
23	respectively;
24	each of the first and second hard bias layers and the sensor having a top surface;
25	the top surfaces of the first and second hard bias layers and the sensor lying within
26	a common plane;
27	a first lead layer electrically connected to a top portion of the first side wall and a
28	second lead layer electrically connected to a top portion of the second side wall;
29	a ferromagnetic first shield layer;

50	the first read gap layer interfacing the first shield layer;
31	the second read gap layer interfacing the sensor; and
32	a ferromagnetic second shield layer interfacing the second read gap layer;
33	a housing;
34	a magnetic medium supported in the housing;
35	a support mounted in the housing for supporting the magnetic head assembly with said head
36	surface facing the magnetic medium so that the magnetic head assembly is in a transducing
37	relationship with the magnetic medium;
88	a motor for moving the magnetic medium; and
39	a processor connected to the magnetic head assembly and to the motor for exchanging signals
10	with the magnetic head assembly and for controlling movement of the magnetic medium.

7.- 17. (Cancelled)